



Did you know that...

The deadline for monitoring Microplastic in water for human consumption set by European Directive (a legislative act that sets out goals that all EU countries must achieve) published in December 2020, is only 5 months away. January 2024, a methodology for measuring/monitoring Microplastic should be implemented by all the European countries. Is your country ready for this?

Read [HORIBA's booklet](#) "Microplastics booklet", to understand what is the best technology to be used and stay tuned for future updates.

Directive (EU) 2020/2184 of the European Parliament and of the Council of 16 December 2020 on the quality of water intended for human consumption (recast) (Text with EEA relevance)

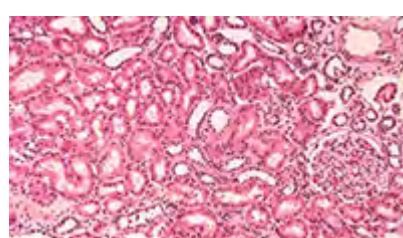
Humans and microplastics

The increasing concern about the human and animal exposure to microplastics and nanoplastics is the driving force to have a dedicated chapter on our Microplastic booklet. **Valentina Notarstefano** (researcher at the Polytechnic University of the Marche, Italy) agreed to introduce **this chapter with a nice write up explaining the most common routes of human exposures to microplastics, and show the evidence of their accumulation and translocation in human tissues.** Read this review to understand more.



Nanoplastics characterization

Nanoplastics are the smallest piece of plastics that can be few nanometers (20 times thousands smaller than a human air) up to 1 micron in size. The interest in the plastics of such sizes is linked to their capability to enter the human body through different routes, such as ingestion, inhalation and dermal contact, posing a large concern for human health, as mentioned above. In the first contribution of this chapter the group of **Silke Christiansen** (Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Germany) is showing **how it's possible to analyse these particles with HORIBA's nanoGPS combining Scanning Electron Microscopy and Raman microscopy.**



[Download the updated ebook](#)

Live Webinar: What makes Raman microscopy ready for specific applications?

Raman microscopy is more and more becoming a standard method in many application domains. This transforms Raman microscopy from a high-end technique to one that is widely used. Consequently, it has to come with tips-and-tricks, and with dedicated tools to support these different applications. These supporting tools can be accessories or software dedicated apps.

During this webinar, we will detail the tools and accessories supporting Raman microscopy for software-dedicated applications.

[Watch the webinar](#)

Meet HORIBA at...

[ICAVS12 \(12th International Conference on Advanced Vibrational Spectroscopy\):](#)

 **August 27 to September 1st, 2023**
 **Krakow, Poland**

[IFSCC 2023 \(International Federation of Societies of Cosmetic Chemists\):](#)

 **4th to 7th September, 2023**
 **Barcelona, Spain**

[Wokshop about Advanced Materials and Semiconductor, Save The Date!](#)


 **24th to 29th September, 2023**
 **Bucharest and Cluj, Romania**


[Raman Fest 2023: The 10th International Conference on Applied Raman Spectroscopy:](#)

 **9th to 10th November, 2023**
 **Paris, France**

The 10th International Conference on Advanced Applied Raman Spectroscopy (**RamanFest2023: November 09-10, 2023 - Paris, France**) will feature presentations from world-leading Raman experts and researchers using the technique across varied applications within life science, materials science, and energy and environmental analysis. It will bring together the world's Raman community to share, learn and discuss how Raman spectroscopy is being applied to today's problems and pioneering tomorrow's capabilities.

Submit a presentation to the RamanFest committee:

 Deadline for oral submission: September 18, 2023

 Deadline for poster submission: October 09, 2023

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